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(54) PREPARATION OF CONTINUOUS FIBER REINFORCED THERMOPLASTIC COMPOSITE

(57)Abstract:

PURPOSE: To control various problems on hygiene, environment, safety etc., experienced in a conventional fluidized bed and to obtain a continuous fiber reinforced thermoplastic composite by adopting specified preparation conditions in the preparation the composite.

CONSTITUTION: A continuous filament constituted by a bundle of fibers such as a glass fiber bundle is unwound from a bobbin, opened and disassembled into its individual fibers preferably using a mechanical roller system. The open filament is dipped in and passed through a fixed bed constituted by the powder of a thermoplastic polymer such as poly (butylene terephthalate) contained in a tank to be vibrated continuously by generating the vibration preferably through a mechanical means, a swinging arm or a magnetic head. The filament is reassembled and a flexible protective sheath made of the thermoplastic polymer is formed around the filament.

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